

DUST COLLECTING APPARATUS AND AIR-CONDITIONING APPARATUS**Patent number:** EP1175943**Publication date:** 2002-01-30**Inventor:** KATOU RYOU (JP); TASHIRO YOSHIKAZU (JP)**Applicant:** MATSUSHITA SEIKO KK (JP)**Classification:**

- **International:** B03C3/12; B03C3/155; B03C3/38; B03C3/41;
 B03C3/04; B03C3/34; B03C3/40; (IPC1-7): B03C3/38;
 B03C3/14; B03C3/41; B03C3/45; B03C3/60

- **European:** B03C3/12; B03C3/155; B03C3/38; B03C3/41

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 20000303; JP20000206492 20000707

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WO0164349 (A1)



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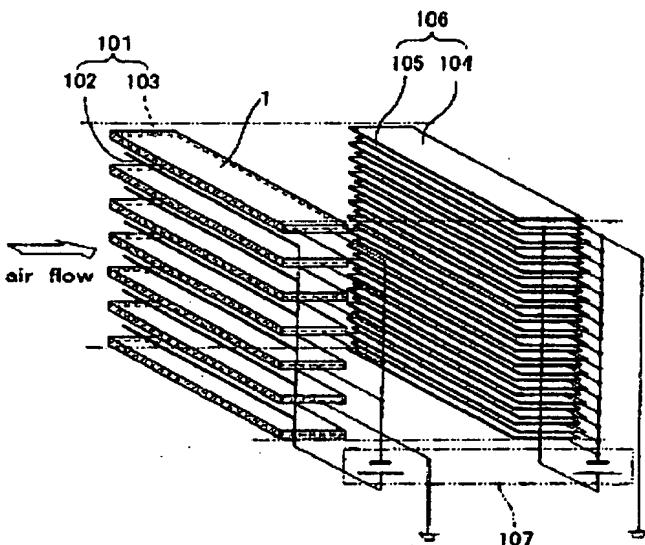
US2003005824 (A1)



CN1232355C (C)

[Report a data error here](#)**Abstract of EP1175943**

A dust is electrostatically charged using an ion-releasing means adapted to release only ionized air with occurrence of a corona discharge, thereby reducing the amount of power consumed and the amount of ozone generated to the utmost. An electric dust collector includes a charging section comprising a discharging electrode and an earthed electrode, a dust-collecting section comprising a voltage-applied electrode and an earthed electrode and an air feed fan. A dust introduced into the dust collector is electrostatically charged by breaking the air insulation by a corona discharge occurring in the charging section to produce ionized air and then removed in the dust-collecting section where an electric field is formed. However, because the corona discharge is generated, there is a problem that the discharged current is large, and the amount of power consumed and the amount of ozone generated are large.

FIG. 1

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EC Classification: B03C3/155, B03C3/12, B03C3/38, B03C3/41

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Cited patent(s):

Abstract

A dust is electrostatically charged using an ion-releasing means adapted to release only ionized air with occurrence of a corona discharge, thereby reducing the amount of power consumed and the amount of ozone generated to the utmost. An electric dust collector includes a charging section comprising a discharging electrode and an earthed electrode, a dust-collecting section comprising a voltage-applied electrode and an earthed electrode and an air feed fan. A dust introduced into the dust collector is electrostatically charged by breaking the air insulation by a corona discharge occurring in the charging section to produce ionized air and then removed in the dust-collecting section where an electric field is formed. However, because the corona discharge is generated, there is a problem that the discharged current is large, and the amount of power consumed and the amount of ozone generated are large.

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